

```
exe_1.9  exe.33  exe_3  exe_6.l  exe_1. X  +  -  □  X
File  Edit  View  ⚙️

%{
int positive_no = 0, negative_no = 0;
%}
%%
^[-][0-9]+ {negative_no++;
               printf("negative number = %s\n",
                      yytext);} // negative number

[0-9]+ {positive_no++;
        printf("positive number = %s\n",
              yytext);} // positive number

%%
int yywrap(){}
int main()

{
yylex();
printf ("number of positive numbers = %d,"
        "number of negative numbers = %d\n",
        positive_no, negative_no);

return 0;
}
```

Ln 22, Col 1 | 412 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt - a.exe exi X  +  v  -  □  X

07/11/2023  03:09 PM  <DIR>      logs
05/07/2022  10:54 AM  <DIR>      PerfLogs
02/21/2024  10:43 AM  <DIR>      Program Files
02/21/2024  10:55 AM  <DIR>      Program Files (x86)
08/31/2023  01:26 PM  <DIR>      TURBOC3
01/26/2024  10:08 PM  <DIR>      Users
01/26/2024  10:16 PM  <DIR>      Windows
               0 File(s)      0 bytes
               12 Dir(s)  192,970,899,456 bytes free

C:\>cd cd lab

C:\cd lab>flex ex.6.l
flex: can't open ex.6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_1.6.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.6.l
12347
positive number = 12347

|
```

```
File Edit View

%{
#include <stdio.h>
int num_count = 0;
int word_count = 0;
int yywrap(void) { return 1; } // Adjusted yywrap function definition
%}

DIGITS [0-9]+
WORDS [a-zA-Z]+

%%

{DIGITS} { printf("Number: %s\n", yytext); num_count++; }
{WORDS} { printf("Word: %s\n", yytext); word_count++; }
. ;

%%

int main() {
    yylex();
    printf("Total numbers: %d\n", num_count);
    printf("Total words: %d\n", word_count);
    return 0;
}

Ln 25, Col 1 443 characters 100% Windows (CRLF) UTF-8
```

```
Command Prompt

C:\cd lab>a.exe exe_1.4.l
pradeepthi

ankitha

^Z
Number of vowels: 7
Number of consonants: 10

C:\cd lab>flex exe_1.5.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.5.l
auto
Keyword: auto
apple
Identifier: apple
^Z

C:\cd lab>flex exe_1.7.l
flex: can't open exe_1.7.l

C:\cd lab>flex exe_1.7.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.7.l
ankitha
Word: ankitha

9393
Number: 9393

^Z
Total numbers: 1
Total words: 1

C:\cd lab>
```

```
File Edit View

%{
#include <stdio.h>
int max_length = 0;
}%

%%
[a-zA-Z]+ { if (yyleng > max_length) max_length = yyleng; }
.
;
%%
int yywrap() {
    return 1;
}

int main() {
    yylex();
    printf("Length of the longest word: %d\n", max_length);
    return 0;
}
```

Ln 1, Col 1 | 264 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt

C:\cd lab>a.exe exe_1.12.l
pradeepthi
Word: pradeepthi

>
Relational Operator: >

=

^Z

C:\cd lab>flex exe_1.10.l
flex: can't open exe_1.10.l

C:\cd lab>flex exe_1.10.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.10.l
pradeepthi5786

https://www.example.com
Valid URL: https://www.example.com

^Z

C:\cd lab>flex exe_1.9.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.9.l
pradeepthi

yeddulaankitha

^Z
Length of the longest word: 14

C:\cd lab>
```

```
File Edit View

%{
#include <stdio.h>
}%

%%

^[a-zA-Z]+:\\\\[a-zA-Z0-9\\.\\-]+\\. [a-zA-Z]{2,}(\\|\\S*)?$$ { printf("Valid URL: %s
\\n",yytext); }
. ;

%%_1.10.1
int yywrap() {
    return 1;
}

int main() {
    yylex();
    return 0;
}
```

Ln 10, Col 1 | 217 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt - a.exe exe_1.12.l x + v

C:\>cd cd lab

C:\cd lab>flex exe_1.12.l
flex: can't open exe_1.12.l

C:\cd lab>^A
'^' is not recognized as an internal or external command,
operable program or batch file.

C:\cd lab>flex exe_1.12.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.12.l
pradeepthi
Word: pradeepthi

>
Relational Operator: >

=

^Z

C:\cd lab>flex exe_1.10.l
flex: can't open exe_1.10.l

C:\cd lab>flex exe_1.10.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.10.l
pradeepthi5786

https://www.example.com
Valid URL: https://www.example.com
```



```
File Edit View
%{
int i;
}%
%%
[a-z A-Z]* { for(i=0;i<=yytext[i];i++)
{ if((yytext[i]=='a')&&(yytext[i+1]=='b')&&(yytext[i+2]=='c'))
{ yytext[i]='A';
yytext[i+1]='B';
yytext[i+2]='C';
}
}
printf("%s",yytext);
}

[\\t]* return 1;
.* {ECHO;}
\\n {printf("%s",yytext);}
%%
int main()
{
yylex();
}
int yywrap()
{
return 1;
}
```

Ln 27, Col 1 | 100% | Windows (CRLF) | UTF-8

```
Command Prompt - a.exe
30-11-2023 17:01 170 CDex23.l
30-11-2023 17:05 198 CDex24.l
30-11-2023 17:49 449 CDex25.l
30-11-2023 17:50 37,853 lex.yy.c
29-11-2023 09:24 338 macro.l
29-11-2023 09:25 114 macro_input.c
22 File(s) 75,813 bytes
1 Dir(s) 397,622,980,608 bytes free

C:\lex lab>lex Cdex25.l

C:\lex lab>gcc lex.yy.c

C:\lex lab>a.exe
abcd
ABCD
```

CSA14 - List_of_experiments[2] - Read-Only - Compatibility Mode - Word

25. Write a LEX Program to convert the substring abc to ABC from the given input string.

Page 4 of 5 | 14 of 1265 words | English (India) | Focus | 130%

```
File Edit View

%{
#include <stdio.h>
%}

%%

[a-zA-Z]+ { printf("Word: %s\n", yytext); }
"==" { printf("Relational Operator: %s\n", yytext); }
"<" { printf("Relational Operator: %s\n", yytext); }
">" { printf("Relational Operator: %s\n", yytext); }
"<=" { printf("Relational Operator: %s\n", yytext); }
">=" { printf("Relational Operator: %s\n", yytext); }
"!=" { printf("Relational Operator: %s\n", yytext); }
. ; /* Ignore other characters */

%%

int yywrap() {
    return 1;
}

int main() {
    yylex();
    return 0;
}

Ln 25, Col 1 598 characters 100% Windows (CRLF) UTF-8
```

```
Command Prompt

02/22/2024 01:36 PM <DIR> cd lab
07/11/2023 01:05 PM <DIR> Dell
02/21/2024 10:54 AM <DIR> Flex Windows
01/27/2024 08:06 AM <DIR> Intel
07/11/2023 03:09 PM <DIR> logs
05/07/2022 10:54 AM <DIR> PerfLogs
02/21/2024 10:43 AM <DIR> Program Files
02/21/2024 10:55 AM <DIR> Program Files (x86)
08/31/2023 01:26 PM <DIR> TURBOC3
01/26/2024 10:08 PM <DIR> Users
01/26/2024 10:16 PM <DIR> Windows
0 File(s) 0 bytes
12 Dir(s) 192,798,126,080 bytes free

C:\>cd cd lab

C:\cd lab>flex exe_1.12.l
flex: can't open exe_1.12.l

C:\cd lab>^A
'^' is not recognized as an internal or external command,
operable program or batch file.

C:\cd lab>flex exe_1.12.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.12.l
pradeepthi
Word: pradeepthi

>
Relational Operator: >

=

^Z

C:\cd lab>
```

```
math.l  digitornot.l  dobvalidornot.l
File Edit View
%%
((([0-9])|([1-2][0-9])|(3[0-1]))\)/((([0-9])|(1[0-2]))\)/(19[0-9]{2}|2[0-9]{3})) printf("Valid
DoB");
.* printf("Invalid DoB");
%%

int main()
{
    yylex();
    return 0;
}
int yywrap()
{}

Ln 14, Col 1  100%  Windows (CRLF)  UTF-8
```

```
Command Prompt - a.exe do
17-05-2023 10:27 <DIR> Program Files
07-08-2023 18:20 <DIR> WindowsApps
1 File(s) 1,226,215 bytes
3 Dir(s) 152,362,115,072 bytes free

E:\>cd lex lab prgm

E:\lex lab prgm>dir
Volume in drive E is New Volume
Volume Serial Number is FE45-A672

Directory of E:\lex lab prgm

30-11-2023 13:03 <DIR> .
30-11-2023 13:01 63,392 a.exe
30-11-2023 13:00 183 digitornot.l
30-11-2023 13:03 198 dobvalidornot.l
30-11-2023 13:04 38,375 lex.yy.c
30-11-2023 12:44 367 math.l
5 File(s) 102,515 bytes
1 Dir(s) 152,362,115,072 bytes free

E:\lex lab prgm>flex dobvalidornot.l

E:\lex lab prgm>gcc lex.yy.c

E:\lex lab prgm>a.exe dobvalidornot.l
20/12/1987
Valid DoB
|
```



```
File Edit View
#include <stdio.h>
#include <stdlib.h>
int macro_count = 0;
int header_count = 0;
}%

%%
#define { ++macro_count; }
#include { ++header_count; }
. { /* Ignore other characters */ }
%%

int yywrap() {
    return 1; // Indicate that there are no more input streams
}

int main(int argc, char *argv[]) {
    if(argc != 2) {
        printf("Usage: %s <input_file>\n", argv[0]);
        return 1;
    }

    FILE *input_file = fopen(argv[1], "r");
    if(input_file == NULL) {
        perror("Error opening input file");
        return 1;
    }

    yyin = input_file;
    yylex();

    fclose(input_file);

    printf("Number of Macros defined: %d\n", macro_count);
    printf("Number of Header files included: %d\n", header_count);

    return 0;
}

Ln 40, Col 1 784 characters 100% Windows (CRLF) UTF-8
```

```
Command Prompt

Number of Macros defined: 1
Number of Header files included: 3

C:\cd lab>
```

```
exe_1.9.l  exe_1.13.l  exe_1.14.l  exe_1.17.l  exe_1.  X  +  -  □  X
File  Edit  View  ⚙️

%{
#include <stdio.h>
#include <stdlib.h>
%}

%%
[0-9]+      { printf("Constant: %s\n", yytext); }
-?[0-9]+\.[0-9]+ { printf("Constant: %s\n", yytext); }
-?[0-9]+    { printf("Constant: %s\n", yytext); }
.           { /* Ignore other characters */ }
%%

int yywrap() {
    return 1; // Indicate that there are no more input streams
}

int main(int argc, char *argv[]) {
    if(argc != 2) {
        printf("Usage: %s <input_file>\n", argv[0]);
        return 1;
    }

    FILE *input_file = fopen(argv[1], "r");
    if(input_file == NULL) {
        perror("Error opening input file");
        return 1;
    }

    yyin = input_file;
    yylex();

    fclose(input_file);
    return 0;
}

Ln 35, Col 1  719 characters  100%  Windows (CRLF)  UTF-8
```

```
Command Prompt  X  +  v

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.18.l

Constant: 0
Constant: -9

Constant: 0
Constant: -9
Constant: 0
Constant: -9

Constant: 0
Constant: -9

Constant: 1

Constant: 2
Constant: 0
Constant: 1

Constant: 1
```

```
exe_1.14.l  exe_1.18.l  exe_1.17.l  exe_1.19.l  print_ x
File Edit View

%{
#include <stdio.h>
#include <stdlib.h>
%}

%%
"<" [^>]+ ">" { printf("HTML tag: %s\n", yytext); }
. { /* Ignore other characters */ }
%%

int main(int argc, char *argv[]) {
    if(argc != 2) {
        printf("Usage: %s <input_file>\n", argv[0]);
        return 1;
    }

    FILE *input_file = fopen(argv[1], "r");
    if(input_file == NULL) {
        perror("Error opening input file");
        return 1;
    }

    yyin = input_file;
    yylex();

    fclose(input_file);
    return 0;
}

Ln 29, Col 1 524 characters 100% Windows (CRLF) UTF-8
```

```
Command Prompt
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DELL>cd/

C:\>dir
Volume in drive C has no label.
Volume Serial Number is B857-0993

Directory of C:\

09/02/2023  10:51 PM  <DIR>          altera
02/23/2024  01:14 PM  <DIR>          cd lab
07/11/2023  01:05 PM  <DIR>          Dell
02/21/2024  10:54 AM  <DIR>          Flex Windows
01/27/2024  08:06 AM  <DIR>          Intel
07/11/2023  03:09 PM  <DIR>          logs
05/07/2022  10:54 AM  <DIR>          PerfLogs
02/21/2024  10:43 AM  <DIR>          Program Files
02/21/2024  10:55 AM  <DIR>          Program Files (x86)
08/31/2023  01:26 PM  <DIR>          TURBOC3
01/26/2024  10:08 PM  <DIR>          Users
01/26/2024  10:16 PM  <DIR>          Windows
               0 File(s)              0 bytes
               12 Dir(s)  192,729,092,096 bytes free

C:\>cd cd lab

C:\cd lab>flex exe_1.17.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.17.l
Number of characters: 696
Number of lines: 43
Number of words: 103

C:\cd lab>
```

Directory Cliptext

[C:] Windows-SSD

- C\
 - Flex Windows
 - Bison
 - custom_build_r
 - data
 - EditPlusPortabl
 - gcc

- 23.l
- 23.l.bak
- a.exe
- char.l
- count.l
- Flex Windows (Lex and Ya
- FlexLexer.h
- lex.yy.c
- LexEditor.bat
- LexEditor.exe
- README.txt
- uninstall.exe
- win_bison.exe
- win_flex.exe

All Files (*.*)

21.1

For Help, press F1

```

1  %{
2  int nchar, nword, nline;
3  %}
4  %%
5  \n { nline++; nchar++; }
6  [^ \t\n]+ { nword++, nchar += yyleng; }
7  . { nchar++; }
8  %%
9
10 int yywrap(void) {
11 return 1;
12 }
13 int main(int argc, char *argv[]) {
14 yyin = fopen(argv[1], "r");
15 yylex();
16 printf("Number of characters = %d\n", nchar);
17 printf("Number of words = %d\n", nword);
18 printf("Number of lines = %d\n", nline);
19 fclose(yyin);
20 }

```

Command Prompt

```

18-11-2023 09:53          423 char.l
18-11-2023 10:06          406 count.l
18-11-2023 09:10      <DIR>      custom_build_rules
18-11-2023 09:10      <DIR>      data
18-11-2023 09:10      <DIR>      EditPlusPortable
18-11-2023 09:10          50 Flex Windows (Lex and
Yacc) website.url
17-06-2014 02:15      6,423 FlexLexer.h
18-11-2023 09:10      <DIR>      gcc
18-11-2023 09:10      <DIR>      Lex
20-11-2023 12:13      37,558 lex.yy.c
06-07-2014 23:43          41 LexEditor.bat
06-07-2014 23:44    1,166,336 LexEditor.exe
17-06-2014 21:20          2,424 README.txt
18-11-2023 09:10      72,183 uninstall.exe
17-06-2014 21:16     514,048 win_bison.exe
17-06-2014 02:18     546,816 win_flex.exe
                    17 File(s)      2,382,283 bytes
                    7 Dir(s)  71,662,190,592 bytes free

```

C:\Flex Windows>flex 21.1

C:\Flex Windows>gcc lex.yy.c

C:\Flex Windows>a.exe 21.c

Number of characters = 254

Number of words = 33

Number of lines = 9

C:\Flex Windows>


```
File Edit View
"#" { printf("Preprocessor Directive: %s\n", yytext); }
#include { printf("Header File: %s\n", yytext); }
"void" { printf("Data Type: %s\n", yytext); }
"int" { printf("Data Type: %s\n", yytext); }
"printf" { printf("Function Call: %s\n", yytext); }
"(" { printf("Left Parenthesis: %s\n", yytext); }
")" { printf("Right Parenthesis: %s\n", yytext); }
"=" { printf("Assignment Operator: %s\n", yytext); }
";" { printf("Semicolon: %s\n", yytext); }
\"[^\n]*\" { printf("String Literal: %s\n", yytext); }
[0-9]+ { printf("Integer Constant: %s\n", yytext); }
[a-zA-Z_][a-zA-Z0-9_]* { printf("Identifier: %s\n", yytext); }
. { printf("Unrecognized Token: %s\n", yytext); }

%%

int main(int argc, char *argv[]) {
    if (argc != 2) {
        printf("Usage: %s input_file\n", argv[0]);
        return 1;
    }

    FILE *input_file = fopen(argv[1], "r");
    if (!input_file) {
        perror("Error opening input file");
        return 1;
    }

    // Set the input file for the lexer
    yyin = input_file;

    // Call the lexer
    yylex();

    // Close the file
    fclose(input_file);

    return 0;
}

Ln 47, Col 1 1,227 characters 100% Windows (CRLF) UTF-8
```

```
Command Prompt
02/21/2024 10:54 AM <DIR> Flex Windows
01/27/2024 08:06 AM <DIR> Intel
07/11/2023 03:09 PM <DIR> logs
05/07/2022 10:54 AM <DIR> PerfLogs
02/21/2024 10:43 AM <DIR> Program Files
02/21/2024 10:55 AM <DIR> Program Files (x86)
08/31/2023 01:26 PM <DIR> TURBOC3
01/26/2024 10:08 PM <DIR> Users
01/26/2024 10:16 PM <DIR> Windows
0 File(s) 0 bytes
12 Dir(s) 192,249,139,200 bytes free

C:\>cd cd lab

C:\cd lab>flex exe_1.22.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.22.l
Usage: a.exe input_file output_file

C:\cd lab>flex exe_1.23.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.23.l
Unrecognized Token: %
Unrecognized Token: {

Preprocessor Directive: #
Header File: include
Unrecognized Token:
Unrecognized Token: <
Identifier: stdio
Unrecognized Token: .
Identifier: h
Unrecognized Token: >

Unrecognized Token: %
```



```
print_html_t.exe_1.13.l.exe_1.1.exe_1.21.exe_1. x
File Edit View
"//" { comment_lines_count++; }
. { fprintf(output_file, "%s", yytext); }
%%

int main(int argc, char *argv[]) {
    if (argc != 3) {
        printf("Usage: %s input_file output_file\n", argv[0]);
        return 1;
    }

    FILE *input_file = fopen(argv[1], "r");
    if (!input_file) {
        perror("Error opening input file");
        return 1;
    }

    output_file = fopen(argv[2], "w");
    if (!output_file) {
        perror("Error opening output file");
        fclose(input_file);
        return 1;
    }

    // Set the input file for the lexer
    yyin = input_file;

    // Call the lexer
    yylex();

    // Close files
    fclose(input_file);
    fclose(output_file);

    printf("Number of comment lines: %d\n", comment_lines_count);

    return 0;
}

Ln 29, Col 24 | 877 characters | 100% | Windows (CRLF) | UTF-8
```

```
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DELL>cd/

C:\>dir
Volume in drive C has no label.
Volume Serial Number is B857-0993

Directory of C:\

09/02/2023  10:51 PM  <DIR>          altera
02/23/2024  09:54 PM  <DIR>          cd lab
07/11/2023  01:05 PM  <DIR>          Dell
02/21/2024  10:54 AM  <DIR>          Flex Windows
01/27/2024  08:06 AM  <DIR>          Intel
07/11/2023  03:09 PM  <DIR>          logs
05/07/2022  10:54 AM  <DIR>          PerfLogs
02/21/2024  10:43 AM  <DIR>          Program Files
02/21/2024  10:55 AM  <DIR>          Program Files (x86)
08/31/2023  01:26 PM  <DIR>          TURBOC3
01/26/2024  10:08 PM  <DIR>          Users
01/26/2024  10:16 PM  <DIR>          Windows
               0 File(s)              0 bytes
               12 Dir(s)  192,249,139,200 bytes free

C:\>cd cd lab

C:\cd lab>flex exe_1.22.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.22.l
Usage: a.exe input_file output_file

C:\cd lab>
```

```
exe_1.25.l  exe_1.26  exe_1.27  exe_1.28  exe_1.  x  ▶  +  -  □  ×
File  Edit  View  ⚙️

%{
#include <stdio.h>
int whitespace_count = 0;
int newline_count = 0;
int yywrap() { return 1; }
}%

%%

[ \t]    { whitespace_count++; }
\n       { newline_count++; }

.        ; // Ignore other characters

%%

int main() {
    yylex();
    printf("Number of whitespace characters: %d\n", whitespace_count);
    printf("Number of newline characters: %d\n", newline_count);
    return 0;
}
```

Ln 22, Col 2 | 397 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt  x  +  v
exe_1.28.c:15:14: error: expected ';' before '{' token

C:\cd lab>flex exe_1.28.c

C:\cd lab>gcc lex.yy.c
exe_1.28.c: In function 'yylex':
exe_1.28.c:15:8: error: expected expression before 'void'
exe_1.28.c:15:8: error: too many arguments to function 'yywrap'
lex.yy.c:382:12: note: declared here
exe_1.28.c:15:14: error: expected ';' before '{' token

C:\cd lab>flex exe_1.29.c

C:\cd lab>gcc lex.yy.c
C:\Users\DELL\AppData\Local\Temp\ccCWCBE1.o:lex.yy.c:(.text+0x2cf): undefined
reference to 'yywrap'
C:\Users\DELL\AppData\Local\Temp\ccCWCBE1.o:lex.yy.c:(.text+0x9af): undefined
reference to 'yywrap'
c:/flex/windows/gcc/bin/../../lib/gcc/mingw32/4.7.2/../../bin/ld.
exe: C:\Users\DELL\AppData\Local\Temp\ccCWCBE1.o: bad reloc address 0x4a8 in
section '.rdata'
c:/flex/windows/gcc/bin/../../lib/gcc/mingw32/4.7.2/../../bin/ld.
exe: final link failed: Invalid operation
collect2.exe: error: ld returned 1 exit status

C:\cd lab>flex exe_1.29.c

C:\cd lab>gcc lex.yy.c
lex.yy.c:377:12: warning: prototype for 'yywrap' follows non-prototype defin
ition [enabled by default]

C:\cd lab>a.exe exe_1.29.c
she is watching moble since      2 hours
she is till watching
^Z
Number of whitespace characters: 13
Number of newline characters: 2

C:\cd lab>
```

```

Summary:
Identifiers found: 4
Constants found: 0
Operators found: 1

C:\cd lab>flex exe_1.27.c

C:\cd lab>gcc lex.yy.c
C:\Users\DELL\AppData\Local\Temp\ccs8Zka5.o:lex.yy.c:(.text+0x283): undefined
d reference to `yyinput'
C:\Users\DELL\AppData\Local\Temp\ccs8Zka5.o:lex.yy.c:(.text+0x291): undefined
d reference to `yyinput'
C:\Users\DELL\AppData\Local\Temp\ccs8Zka5.o:lex.yy.c:(.text+0x3cb): undefined
d reference to `yywrap'
C:\Users\DELL\AppData\Local\Temp\ccs8Zka5.o:lex.yy.c:(.text+0xaab): undefined
d reference to `yywrap'
c:/flex/windows/gcc/bin/./lib/gcc/mingw32/4.7.2/./.././../mingw32/bin/ld.
exe: C:\Users\DELL\AppData\Local\Temp\ccs8Zka5.o: bad reloc address 0x66c in
section `.rdata'
c:/flex/windows/gcc/bin/./lib/gcc/mingw32/4.7.2/./.././../mingw32/bin/ld.
exe: final link failed: Invalid operation
collect2.exe: error: ld returned 1 exit status

C:\cd lab>flex exe_1.27.c

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.27.c
Enter a C program (Ctrl+D to end):
they both are friends&also calssmates!
Identifier: they
Identifier: both
Identifier: are
Identifier: friends
Identifier: also
Identifier: calssmates

```



```
File Edit View

%{
#include <stdio.h>
#include <string.h>
int valid_identifier = 0;
%}

%option noyywrap

%%

[a-zA-Z][a-zA-Z0-9]* { valid_identifier = 1; }
. ; // Ignore other characters

%%

int main() {
    char identifier[100];
    printf("Enter an identifier: ");
    scanf("%s", identifier);
    yy_scan_string(identifier);
    yylex();
    if (valid_identifier) {
        printf("The identifier \"%s\" is valid.\n", identifier);
    } else {
        printf("The identifier \"%s\" is not valid.\n", identifier);
    }
    return 0;
}
```

Ln 29, Col 1 | 550 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt

exe_1.28.c:15:14: error: expected ';' before '{' token

C:\cd lab>flex exe_1.30.c

C:\cd lab>gcc lex.yy.c
C:\Users\DELL\AppData\Local\Temp\ccyMcdi8.o:lex.yy.c:(.text+0x2be): undefined reference to `yywrap'
C:\Users\DELL\AppData\Local\Temp\ccyMcdi8.o:lex.yy.c:(.text+0x99e): undefined reference to `yywrap'
c:/flex/windows/gcc/bin/../lib/gcc/mingw32/4.7.2/../../../../mingw32/bin/ld.exe: C:\Users\DELL\AppData\Local\Temp\ccyMcdi8.o: bad reloc address 0x4c0 in section `.rdata'
c:/flex/windows/gcc/bin/../lib/gcc/mingw32/4.7.2/../../../../mingw32/bin/ld.exe: final link failed: Invalid operation
collect2.exe: error: ld returned 1 exit status

C:\cd lab>flex exe_1.30.c

C:\cd lab>gcc lex.yy.c
C:\Users\DELL\AppData\Local\Temp\ccciWsrBo.o:lex.yy.c:(.text+0x2be): undefined reference to `yywrap'
C:\Users\DELL\AppData\Local\Temp\ccciWsrBo.o:lex.yy.c:(.text+0x99e): undefined reference to `yywrap'
c:/flex/windows/gcc/bin/../lib/gcc/mingw32/4.7.2/../../../../mingw32/bin/ld.exe: C:\Users\DELL\AppData\Local\Temp\ccciWsrBo.o: bad reloc address 0x4c0 in section `.rdata'
c:/flex/windows/gcc/bin/../lib/gcc/mingw32/4.7.2/../../../../mingw32/bin/ld.exe: final link failed: Invalid operation
collect2.exe: error: ld returned 1 exit status

C:\cd lab>flex exe_1.30.c

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.30.c
Enter an identifier: they
The identifier "they" is valid.

C:\cd lab>
```



```
File Edit View
CDex2
%{
%}
[a-z.0-9]+@[a-z]+(.com|.in) {printf("\n valid \n")}
.+ {printf("\n invalid \n");}

%%
int yywrap()
{}
int main()
{
printf("\n enter:");
yylex();
}
```

CSA14 - List_of_experiments[2] - Read-Only - Compatibility Mode - Word

5. Write a LEX program to identify the capital words from the given input

4. Write a LEX Program to check the email address is valid or not.

Page 4 of 5 7 of 1265 words

Ln 14, Col 1 100% Windows (CRLF) UTF-8

```
Command Prompt - a.exe
30-11-2023 10:56 340 CDex18.l
30-11-2023 10:57 114 CDex18input.c
30-11-2023 11:00 321 CDex19.l
30-11-2023 11:01 89 CDex19input.html
30-11-2023 12:19 206 CDex20.l
30-11-2023 12:19 116 CDex20input.c
30-11-2023 16:36 265 CDex21.l
30-11-2023 16:40 102 CDex21input.l
30-11-2023 16:52 447 CDex22.l
30-11-2023 16:53 198 CDex22input.c
30-11-2023 17:01 170 CDex23.l
30-11-2023 17:05 198 CDex24.l
30-11-2023 17:44 37,877 lex.yy.c
29-11-2023 09:24 338 macro.l
29-11-2023 09:25 114 macro_input.c
21 File(s) 75,388 bytes
1 Dir(s) 397,624,315,904 bytes free

C:\lex lab>lex CDex24.l

C:\lex lab>gcc lex.yy.c

C:\lex lab>a.exe
babitha@gmail.com

valid
valid

Page 56 of 69 5853 words
```